

# ANALYTICAL REPORT

Job Number: 720-25331-1

Job Description: STORM WATER

For:
Cargill Salt
7220 Central Ave
Newark, CA 94560

Attention: Mr. Sean Riley

Sharma

Approved for release Dimple Sharma Project Manager I 1/25/2010 6:19 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
01/25/2010
Revision: 1

### CA ELAP Certification # 2496

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566 Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

#### Job Narrative 720-25331-1

#### Comments

No additional comments.

#### Receipt

All samples were received in good condition within temperature requirements.

#### General Chemistry

Method(s) 9040B: CCV was not recorded every 10 Samples per SOP. Ending CCV still passed and samples are being considered acceptable.

No other analytical or quality issues were noted.

#### Organic Prep

Method(s) 1664A: System failure during automated extraction process. The sample 720-25331-1 was lost. No duplicate sample was provided. unable to analyze.

No other analytical or quality issues were noted.

# **EXECUTIVE SUMMARY - Detections**

Client: Cargill Salt

Job Number: 720-25331-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-25331-1	REDWOOD CITY	-			
Specific Conductan	ce	60	10	umhos/cm	120,1
pН		5.34	0.100	SU	9040B
Total Suspended So	olids	10 .	10	mg/L	SM 2540D

### **METHOD SUMMARY**

Client: Cargill Salt

Job Number: 720-25331-1

Description	Lab Location	Method	Preparation Method
Matrix: Water		_	
Conductivity, Specific Conductance	TAL SF	MCAWW 120.1	
рН	TAL SF	SW846 9040B	
Solids, Total Suspended (TSS)	TAL SF	SM SM 2540D	

#### Lab References:

TAL SF = TestAmerica San Francisco

#### **Method References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Cargill Salt

Job Number: 720-25331-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received	
720-25331-1	REDWOOD CITY	Water	01/18/2010 0900	01/18/2010 1537	

# **Analytical Data**

Client: Cargill Salt

Job Number: 720-25331-1

Genera	ī	Chemistry	

Client Sample ID:

REDWOOD CITY

Analysis Batch: 720-64507

Lab Sample ID:

720-25331-1

Client Matrix:

Water

Date Sampled: 01/18/2010 0900

Date Received: 01/18/2010 1537

Analyte	Résult	Qual	Units	RL	Dil	Method
Specific Conductance	60		umhos/cm	10	1.0	120.1
Analysis Bat	ch: 720-64514	Date Analyzed	: 01/19/2010 1545			
Analyte	Result	Qual	Units	RL	Dil	Method
pΗ	5.34	· · · · · · · · · · · · · · · · · · ·	SU	0.100	1.0	9040B
Analysis Bat	ch: 720-64632	Date Analyzed	: 01/18/2010 1945			•
Total Suspended Solids	10		ma/i	10	1.0	SM 2540D

Date Analyzed: 01/19/2010 1426

# **DATA REPORTING QUALIFIERS**

Description

Lab Section Qualifier

Client: Cargill Salt

Job Number: 720-25331-1

# **QC Association Summary**

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:720-64507					
LCS 720-64507/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 720-64507/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 720-64507/1	Method Blank	T	Water	SM 2540D	
720-25331-1	REDWOOD CITY	Т	Water	SM 2540D	
Analysis Batch:720-64514	ı				
LCS 720-64514/3	Lab Control Sample	T	Water	120.1	
LCSD 720-64514/4	Lab Control Sample Duplicate	Т	Water	120.1	
MB 720-64514/2	Method Blank	Τ	Water	120.1	
720-25331-1	REDWOOD CITY	Т	Water	120.1	
Analysis Batch:720-64632	2				
LCS 720-64632/1	Lab Control Sample	T	Water	9040B	
720-25329-A-1 DU	Duplicate	Τ	Water	9040B	
720-25331-1	REDWOOD CITY	Т	Water	9040B	

Report Basis
T = Total

Client: Cargill Salt

Job Number: 720-25331-1

Method Blank - Batch: 720-64514

Method: 120.1 Preparation: N/A

Lab Sample ID:

MB 720-64514/2

Analysis Batch: 720-64514

Client Matrix:

Water

Instrument ID: Orion N/A

Dilution:

1.0

Prep Batch: N/A Units: umhos/cm Lab File ID:

Initial Weight/Volume:

Date Analyzed: Date Prepared: 01/19/2010 1545

Final Weight/Volume: 50 mL

Analyte

N/A

Result

Qual

RL

Specific Conductance

ND

10

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-64514

Method: 120.1 Preparation: N/A

LCS Lab Sample ID: LCS 720-64514/3

Analysis Batch: 720-64514

Client Matrix:

Water

Instrument ID: Orion

Dilution:

1.0

N/A

Prep Batch: N/A

Lab File ID: N/A

Date Analyzed: Date Prepared:

01/19/2010 1545

Units: umhos/cm

Initial Weight/Volume: Final Weight/Volume:

50 mL

LCSD Lab Sample ID: LCSD 720-64514/4

Analysis Batch: 720-64514

Instrument ID:

Orion

Client Matrix:

Water

Dilution:

Prep Batch: N/A

Lab File ID:

N/A.

Date Analyzed:

1.0 01/19/2010 1545 Units: umhos/cm

Initial Weight/Volume: Final Weight/Volume:

20

50 mL

Date Prepared:

Analyte

% Rec.

LCSD

Limit **RPD** 

LCSD Qual

Specific Conductance

102

LCS

103 90 - 110 1

RPD Limit LCS Qual

Client: Cargill Salt Job Number: 720-25331-1

Lab Control Sample - Batch: 720-64632

Method: 9040B Preparation: N/A

Lab Sample ID: LCS 720-64632/1

Client Matrix:

Water

Analysis Batch: 720-64632

Instrument ID: Coming pH

Dilution:

Prep Batch: N/A

Lab File ID: N/A

Date Analyzed:

1.0 01/18/2010 0817 Units: SU

Initial Weight/Volume:

Final Weight/Volume: 50 mL

Date Prepared:

N/A

% Rec.

Limit

Analyte

Spike Amount

Analysis Batch: 720-64632

Sample Result/Qual

Result

Qual

рΗ

7.00

6.970

100

99 - 101

Duplicate - Batch: 720-64632

Method: 9040B

Preparation: N/A

Lab Sample ID: 720-25329-A-1 DU

Client Matrix:

Water

1.0 01/18/2010 1905 Prep Batch: N/A Units: SU

Instrument ID: Corning pH

Lab File ID:

N/A

Initial Weight/Volume: Final Weight/Volume:

50 mL

Date Analyzed: Date Prepared: N/A

Dilution:

Result

RPD

Limit

Analyte pН

6.66

6.670

0

5

Qual

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Cargill Salt

Job Number: 720-25331-1

Method Blank - Batch: 720-64507

Method: SM 2540D

Lab Sample ID: MB 720-64507/1 Preparation: N/A

Client Matrix:

Water

Analysis Batch: 720-64507

Instrument ID: No Equipment Assigned

Dilution:

1.0

Prep Batch: N/A Units: mg/L

N/A Lab File ID:

Initial Weight/Volume:

Date Analyzed:

Analyte

01/19/2010 1426

Final Weight/Volume:

100 mL 100 mL

Date Prepared: N/A

Result

Qual

RL

10

Total Suspended Solids

Lab Control Sample/

ND

Lab Control Sample Duplicate Recovery Report - Batch: 720-64507

Method: SM 2540D Preparation: N/A

LCS Lab Sample ID: LCS 720-64507/2

Analysis Batch: 720-64507

Instrument ID:

No Equipment Assigned

Client Matrix:

Water

Prep Batch: N/A

Lab File ID: N/A

Dilution:

1.0

Initial Weight/Volume:

100 mL

Date Analyzed:

01/19/2010 1426

Units: mg/L

Final Weight/Volume:

100 mL

Date Prepared:

N/A

LCSD Lab Sample ID: LCSD 720-64507/3

Analysis Batch: 720-64507

Instrument ID:

No Equipment Assigned

Client Matrix: Dilution:

Water 1.0

Prep Batch: N/A

Lab File ID: N/A

Date Analyzed:

01/19/2010 1426 :

Units: mg/L

Initial Weight/Volume: Final Weight/Volume:

20

100 mL 100 mL

LCS Qual

Date Prepared:

Analyte

N/A

91

% Rec. LCS LCSD

Limit **RPD** 

RPD Limit

LCSD Qual

Total Suspended Solids

93

80 - 120

2

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL	San	Francisco
1220 Q	umy l	Lane

# 720-25331 Chain of Custody Record

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Page 12 of 13

# Login Sample Receipt Check List

Client: Cargill Salt

Job Number: 720-25331-1

Login Number: 25331 Creator: Mullen, Joan List Number: 1 List Source: TestAmerica San Francisco

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	•
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	•
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	



# **ANALYTICAL REPORT**

Job Number: 720-27577-1

Job Description: Redwood City

For: Cargill Salt 7220 Central Ave Newark, CA 94560

Attention: Mr. Sean Riley

Surmider Sidhu

Approved for release. Surinder Sidhu Customer Service Manager 4/28/2010 4:57 PM

Designee for Afsaneh Salimpour Project Manager I afsaneh.salimpour@testamericainc.com 04/28/2010

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

#### TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566 Tel (925) 484-1919 Fax (925) 600-3002 <a href="https://www.testamericainc.com">www.testamericainc.com</a>

# Job Narrative 720-27577-1

#### Comments

No additional comments.

### Receipt

No bottle received for Oil & Grease analysis, did not log for Oil & Grease. Received 1 250ml Poly preserved with HNO3, no metals analysis requested on COC.

All other samples were received in good condition within temperature requirements.

#### **General Chemistry**

No analytical or quality issues were noted.

# **EXECUTIVE SUMMARY - Detections**

Client: Cargill Salt

Job Number: 720-27577-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-27577-1	REDWOOD CITY				
pH Specific Conductar Total Suspended S		5.85 100 17	0.100 10 10	SU umhos/cm mg/L	9040B SM 2510B SM 2540D

# **METHOD SUMMARY**

Client: Cargill Salt

Job Number: 720-27577-1

Lab Location	Method	Preparation Method
		`
TAL SF	SW846 9040B	
TAL SF	SM SM 2510B	
TAL SF	SM SM 2540D	
	TAL SF	TAL SF SW846 9040B TAL SF SM SM 2510B

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# **SAMPLE SUMMARY**

Client: Cargill Salt

Job Number: 720-27577-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-27577-1	REDWOOD CITY	Water	04/21/2010 1100	04/21/2010 1745

Client: Cargill Salt

Job Number: 720-27577-1

**General Chemistry** 

Client Sample ID:

REDWOOD CITY

Lab Sample ID:

720-27577-1

Analysis Batch: 720-70164

Client Matrix:

Water

Date Sampled: 04/21/2010 1100

Date Received: 04/21/2010 1745

Analyte Dil Method Result Qual Units RL Total Suspended Solids 17 mg/L 10 1.0 SM 2540D Date Analyzed: 04/24/2010 1424 Analysis Batch: 720-70189 Analyte Result Qual Units RL. Dil Method pН 5.85 SU 0.100 1.0 9040B Analysis Batch: 720-69958 Date Analyzed: 04/22/2010 0031 Specific Conductance 100 umhos/cm 10 1.0 SM 2510B

Date Analyzed: 04/23/2010 1736

# DATA REPORTING QUALIFIERS

Lab Section

Qualifier

Description

Client: Cargill Salt

Job Number: 720-27577-1

# **QC Association Summary**

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Seneral Chemistry					
Analysis Batch:720-6995	8				
.CS 720-69958/1	Lab Control Sample	Ŧ	Water	9040B	
20-27564-A-1 DU	Duplicate	Т	Water	9040B	
20-27577-1	REDWOOD CITY	Т	Water	9040B	
Analysis Batch:720-7016	4				
CS 720-70164/3	Lab Control Sample	Ť	Water	SM 2510B	
CSD 720-70164/4	Lab Control Sample Duplicate	Т	Water	SM 2510B	
/IB 720-70164/2	Method Blank	Т	Water	SM 2510B	
20-27577-1	REDWOOD CITY	T	Water	SM 2510B	
Analysis Batch:720-7018	9				
.CS 720-70189/2	Lab Control Sample	T	Water	SM 2540D	
.CSD 720-70189/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
4B 720-70189/1	Method Blank	Т	Water	SM 2540D	
20-27577-1	REDWOOD CITY	Т	Water	SM 2540D	

Report Basis

T = Total

Client: Cargill Salt

Job Number: 720-27577-1

Duplicate - Batch: 720-69958

Method: 9040B

Preparation: N/A

Lab Sample ID: 720-27564-A-1 DU

Client Matrix:

Water

Analysis Batch: 720-69958

Instrument ID: Orion pH Probe

Prep Batch: N/A

Lab File ID:

N/A

Dilution:

1.0

Units: SU

Initial Weight/Volume:

Date Analyzed: 04/22/2010 0027

Final Weight/Volume:

50 mL

Date Prepared: N/A

Sample Result/Qual

Result

RPD

Qual

Analyte рΗ

12.8

12.96

Limit 5

Client: Cargill Salt

Job Number: 720-27577-1

Method Blank - Batch: 720-70164

Method: SM 2510B

Lab Sample ID:

MB 720-70164/2

Preparation: N/A

Analysis Batch: 720-70164

Instrument ID: Cond Meter

Client Matrix:

Water

Prep Batch: N/A

Lab File ID:

N/A

Dilution:

1.0

Initial Weight/Volume:

Date Analyzed: Date Prepared: 04/23/2010 1736 N/A

Units: umhos/cm

Final Weight/Volume:

50 mL

Analyte

Result

Qual

RL10

Specific Conductance

ND

Method: SM 2510B Preparation: N/A

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-70164

LCS Lab Sample ID: LCS 720-70164/3

Analysis Batch: 720-70164

Instrument ID:

Cond Meter

Client Matrix:

Dilution:

Water 1.0

N/A

Prep Batch: N/A

Lab File ID: N/A

Initial Weight/Volume:

Date Analyzed: Date Prepared:

04/23/2010 1736

Units: umhos/cm

Final Weight/Volume:

50 mL

LCSD Lab Sample ID: LCSD 720-70164/4

Water

1.0

Analysis Batch: 720-70164

Instrument ID:

Cond Meter

Client Matrix: Dilution:

Analyte

Prep Batch: N/A

Lab File ID: N/A

Date Analyzed:

04/23/2010 1736

Units: umhos/cm

Initial Weight/Volume: Final Weight/Volume:

50 mL

Date Prepared:

N/A

% Rec.

RPD

0

RPD Limit LCS Qual

LCSD Qual

Specific Conductance

LCS 110

110

LCSD

90 - 110

Limit

20

Client: Cargill Salt

Job Number: 720-27577-1

Method Blank - Batch: 720-70189

Method: SM 2540D

Lab Sample ID:

MB 720-70189/1

Preparation: N/A

Client Matrix:

Analysis Batch: 720-70189

Water

Lab File ID: NA

Instrument ID: No Equipment Assigned

Dilution:

Prep Batch: N/A

1.0

Units: mg/L

Initial Weight/Volume:

100 mL

Date Analyzed: Date Prepared:

04/24/2010 1424 N/A

Final Weight/Volume:

100 mL

Analyte

Result

Qual

RL 10

Total Suspended Solids

ND

Method: SM 2540D

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 720-70189

Preparation: N/A

LCS Lab Sample ID: LCS 720-70189/2

Analysis Batch: 720-70189

Instrument ID:

No Equipment Assigned

Client Matrix:

Water

Dilution:

1.0

Prep Batch: N/A Units: mg/L

Lab File ID: N/A Initial Weight/Volume:

Final Weight/Volume:

100 mL

Date Analyzed: Date Prepared:

04/24/2010 1424 N/A

100 mL

LCSD Lab Sample ID: LCSD 720-70189/3

04/24/2010 1424

Analysis Batch: 720-70189

Instrument ID:

Client Matrix:

Water

Prep Batch: N/A

Lab File ID: N/A

No Equipment Assigned

LCSD Qual

Dilution:

1.0

Units: mg/L

Initial Weight/Volume:

20

100 mL

Date Analyzed: Date Prepared:

N/A

Final Weight/Volume:

100 mL

Analyte

LCSD

% Rec.

96

**Total Suspended Solids** 

LCS

69 - 117

Limit

**RPD** 

RPD Limit LCS Qual

#### TestAmerica San Francisco 1220 Quarry Lane

Pleasanton, CA 94566

720 - 27577
Chain of Custody Record

TestAmerica

phone 925.484.1919 fax 925.600.3002 TestAmerica Laboratories, Inc. Date: 4-21-10 Project Manager: Sean D. Riley COC No: Client Contact Site Contact: Sean D. Riley Cargill COCs Tel/Fax: -Lab Contact: Melissa Brewer Carrier: SDR 7220 Central Ave Analysis Turnaround Time Newark, CA 94560 Calendar ( C ) or Work Days (W) (510) 790-8625 Phone TAT if different from Below SDG No. (510) 790-8189 FAX 2 weeks 浑 Project Name: Site: 2 days PO#SDR I day Sample Identification Sample Specific Notes: Redwood City Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Rossible Hazard Identification
Non-Hazard Flammable Sample Disposal ( A fee may be assessed if sample Return To Client Disposal By Lab s are retained longer than 1 month) Unknown Skin Irritant Archive For\_ Special Instructions/QC Requirements & Comments: Relinquished by: Scan D. Riley Company: Date/Time Date/Time Company: Date/Time: Date Time: 1745 4/2/ 10 Company: Cargill Relinquished by: Company: Relinquished by: Company: Date/Time: Received by: Сопралу: Date/Time:

# Login Sample Receipt Check List

Client: Cargill Salt

Job Number: 720-27577-1

List Source: TestAmerica San Francisco

Login Number: 27577 Creator: Thomas, Bryan

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	•
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	•
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	SEE NCM
Sample bottles are completely filled.	True	,
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	SEE NCM
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	